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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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David W. Lynch
Crawford Maunu PLLC
1270 Northland Drive, Suite 390
Mendota Heights, MN 55120

EXAMINER

RAHIMI, IRAJ A

ART UNIT

PAPER NUMBER

2622

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/753,470

Applicant(s)

CARNEY ET AL.

Examiner

(Iraj) Alan Rahimi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 January 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-81 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17, 37-57 and 77-81 is/are rejected.
- 7) ☐ Claim(s) 18-36, 58-76 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 January 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>4/18/01</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to because Description of Fig. 1, on page 8 suggest Job Monitor 118 is connected to Marker 130. No Physical connection is present between the two components in Fig. 1.
2. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 9 and 49 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 9 and 49 by using the word "either" attempt to provide an alternative form, however the word "and" in the next sentence provides an opposite effect.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1-8, 10-17, 37-48, 50-57 and 77-81 are rejected under 35 U.S.C. 102(e) as being anticipated by Gase (US patent 6,184,996).

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Regarding claim 1, Gase discloses a method for providing printer recognition and management of a print job entity, comprising:

establishing a repository of attributes and status information associated with each print job that passes through a printer system (column 3, lines 60-62); and providing an interface to a plurality of components to allow access to the attributes and status information in the repository by the plurality of components (column 3, lines 52-58).

Regarding claim 2, Gase discloses the method of claim 1 wherein the interface comprises at least one of a Web Page channel, a multiplexer to manage the routing of jobs to the print engine and a spooler, a job control function interface, a pipeline interface, an operations panel interface and a pull print interface (column 3, lines 24-30).

Regarding claim 3, Gase discloses the method of claim 1 further comprising providing by the interface an ability for components to process a job according to requirements of the component and reporting job attributes and processing status of the job for common access by other components (column 4, lines 1-20).

Regarding 4, Gase discloses the method of claim 1 further comprising providing by the interface access to maintained job variable to the components (column 4, lines 9-20).

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Regarding claim 5, Gase discloses the method of claim 1 further comprising providing by the interface to a component access to common variables, the components presenting job attributes or status to the interface (column 3, lines 12-23).

Regarding claim 6, Gase discloses the method of claim 5 wherein the attributes are presented according to requirements dictated by the interface (column 3, lines 12-23).

Regarding claim 7, Gase discloses the method of claim 1 wherein the interface provides the ability for components to create job entries, obtain and set job attributes, manipulate the state and status of jobs in the system, and obtain job ordering information pertinent to the calling component (column 3, lines 24-36 & 59-63).

Regarding claim 8, Gase discloses the method of claim 1 wherein the repository provides a global view of jobs within the printer, the global view includes an actively printing job, jobs in the process of being spooled, jobs on the spool queue, and jobs on the pull print queue (Fig. 3).

Regarding claim 10, Gase discloses the method of claim 1 wherein the interface cancels jobs (Fig. 4).

Regarding claim 11, Gase discloses the method of claim 10 wherein a cancelled job comprises a current job (Fig. 4).

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Regarding claim 12, Gase discloses the method of claim 10 wherein a cancelled job comprises a job having a selected attribute. As discloses in column 3, line 63, each job has set of attributes. It is inherent in Gase that when the job is cancelled, it includes cancellation of all attributes of the job.

Regarding claim 13, Gase discloses the method of claim 1 further comprising providing logical views to obtain a next job to be processed by a component and to obtain a list of all jobs in the order that they are processed (column 4, lines 9-20).

Regarding claim 14, Gase discloses the method of claim 1 further comprises establishing a job monitor for obtaining a Job ID, performing a query for attributes of a job, updating job attributes, canceling jobs, providing logical views of a job, handling printer events, getting attributes of the printer and setting printer attributes (column 3, lines 32-37).

Regarding claim 15, Gase discloses the method of claim 14 wherein the attributes are updated through the job monitor (column 3, lines 32-37). Rearranging the listed URL is considered to be a form of updating.

Regarding claim 16, Gase discloses the method of claim 14 wherein the job monitor provides the ability for any component to set job attributes (column 4, lines 1-19).

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Regarding claim 17, Gase discloses the method of claim 14 wherein the job monitor uses job states to control the flow of jobs (column 4, lines 20-37).

Regarding claim 37, Gase discloses the method of claim 1 further comprising providing an event registration to provide a methodology for a controller to indicate events to a job monitor, wherein the Job Monitor serves as the system focal point for tracking job related events as they occur during the course of an entire print process (column 4, lines 1-9).

Regarding claim 38, Gase discloses the method of claim 37 further comprising defining events for the job monitor (column 4, lines 9-19).

Regarding claim 39, Gase discloses the method of claim 1 further comprising providing a job monitor for addressing job processing complexity by viewing a job on a higher conceptual plane rather than managing a collection of attributes and status variables that is unique for each data channel (column 3, lines 52-58).

Regarding claim 40, Gase discloses the method of claim 1 further comprising providing a job monitor for providing a common method of accessing the variables associated with a job for the components (column 3, lines 59-67).

Regarding claims 41-48 and 50-57, arguments analogous to those presented for claim 1-8 and 10-17, are presented respectively.

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Regarding claims 77-80, arguments analogous to those presented for claim 37-40, are presented respectively.

Regarding claim 81, arguments analogous to those presented for claim 1, are presented.

Allowable Subject Matter

7. Claim 18-36, 58-76 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Other Prior Art Cited

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lawrence (US patent 6,665,724) discloses a network interface device that is capable of supporting a plurality of protocols on a heterogeneous LAN.

Nakatsuma et al. (US patent 6,115,132) discloses printing system that transmits job information independent of print data.

Osada et al. (US patent 6,600,569) discloses a print control apparatus for analyzing and processing an input print job.

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Freeman et al. (US patent 6,707,574) discloses providing a print job attributes for later access before printing.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Iraj) Alan Rahimi whose telephone number is 571-272-7411.

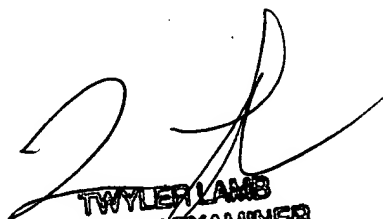
The examiner can normally be reached on Mon.-Fri. 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AR

Alan Rahimi
September 29, 2005


TWYLER LAMB
PRIMARY EXAMINER